

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

F1_RD

C Number: C20515

Lock Date: 04/04/2007

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 2.0.0

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Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 0 mg/m3	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver Hepatodiaphragmatic Nodule	+	+	+	+	+	+	+	+	+	+	10
	X										1
Mesentery Fat, Necrosis					+						1
					2						1 2.0
Pancreas Atrophy	+	+	+	+	+	+	+	+	+	+	10
					1						1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10

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Lab: BNW

		0	0	0	0	0	0	0	0	0
	DAY ON TEST	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9
		3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0
MALE		0	0	0	0	0	0	0	0	0
0 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9

*** TOTALS**

Stomach, Forestomach + + + + + + + + + 10

Stomach, Glandular + + + + + + + + + 10

CARDIOVASCULAR SYSTEMHeart + + + + + + + + + 10
Cardiomyopathy 1 1 1 1 1 1 6 1.0**ENDOCRINE SYSTEM**

Adrenal Cortex + + + + + + + + + 10

Adrenal Medulla + + + + + + + + + 10

Islets, Pancreatic + + + + + + + + + 10

Parathyroid Gland + + + + + + + + + 10

Pituitary Gland + + + + + + + + + 10

Thyroid Gland + + + + + + + + + 10

GENERAL BODY SYSTEM

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	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 0 mg/m ³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0

* TOTALS

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	10
											1 1.0
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Bronchial	M	+	M	+	+	+	+	+	+	+	8
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	M	9
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	10

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS	9	9	9	9	9	9	9	9	9	9
MALE	3	3	3	3	3	3	3	3	3	3
0 mg/m3	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	+	+	+	+	+	+	+
INTEGUMENTARY SYSTEM										
Mammary Gland	+	I	M	+	+	+	+	+	M	M
Skin	+	+	+	+	+	+	+	+	+	+
MUSCULOSKELETAL SYSTEM										
Bone	+	+	+	+	+	+	+	+	+	+
NERVOUS SYSTEM										
Brain	+	+	+	+	+	+	+	+	+	+
RESPIRATORY SYSTEM										
Larynx	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active						1				

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	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 0 mg/m ³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0

* TOTALS

Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	2	2	2	2	2	1	1	2	2	10 1.7
Nose	+	+	+	+	+	+	+	+	+	+	10
Olfactory Epithelium, Accumulation, Hyaline Droplet	1										1 1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy	1	1	1	1	1	1	1	1	1	1	9 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 25 mg/m³	0	0	0	0	0	0	0	0	0	* TOTALS
	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0

ALIMENTARY SYSTEM

Liver Hepatodiaphragmatic Nodule	+	+								2
	X	X								2

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	2	2	2	2	2	2	2	2	2	2
25 mg/m3	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx

Inflammation, Chronic Active

+	+	+	+	+	+	+	+	+	+
1	1	1	1	1	1	2	1	1	1
3	3	4	3	3	3	3	3	3	3
1	1	1	1	1	1	1	1	1	1

10
9 1.1
10 3.1
6 1.0

Lung

Inflammation, Chronic Active

+	+	+	+	+	+	+	+	+	+
1	1	1	1	1	1	1	2	1	1

10
9 1.1

Nose

Foreign Body

Goblet Cell, Hyperplasia

Olfactory Epithelium, Accumulation,
Hyaline DropletOlfactory Epithelium, Inflammation,
SuppurativeRespiratory Epithelium, Accumulation,
Hyaline DropletRespiratory Epithelium, Inflammation,
Suppurative

+	+	+	+	+	+	+	+	+	+
X									
2	1	2	2	1	1	1	1	1	1
3	3	3	3	3	3	3	3	3	3
1	1	1	1	1	1	1	2	1	2

10
1
10 1.3
10 3.0
10 1.2
10 2.6
10 1.2

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 25 mg/m ³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	1
ANIMAL ID	1	2	3	4	5	6	7	8	9	0

	Trachea	+	+	+	+	+	+	+	+	+
										10

* TOTALS

Trachea	+	+	+	+	+	+	+	+	+	+	10
---------	---	---	---	---	---	---	---	---	---	---	----

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 50 mg/m3	0	0	0	0	0	0	0	0	0	*
	0	0	0	0	0	0	0	0	0	1
	4	4	4	4	4	4	4	4	4	1
	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

Liver Hepatodiaphragmatic Nodule	+	1
	X	1

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	4	4	4	4	4	4	4	4	4	4
50 mg/m3	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	2	1	1	1	2	1	1	2	1	10 1.3
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	3	10 3.9
Squamous Epithelium, Hyperplasia	1	1				1	1	1			5 1.0
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1	1	1	1	3	3	3	1	10 1.6
Nose	+	+	+	+	+	+	+	+	+	+	10
Goblet Cell, Hyperplasia	2	2	1	2	2	2	1	1	2	1	10 1.6
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	3	3	3	10 3.0
Olfactory Epithelium, Inflammation, Suppurative	1	2	1	1	2	2	1	1	1	1	10 1.3
Respiratory Epithelium, Accumulation, Hyaline Droplet	2	2	1	3	1	1	1	3	3	1	10 1.8
Respiratory Epithelium, Inflammation, Suppurative	1	2	1	1	2	2	1	1	1	1	10 1.3

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 50 mg/m ³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	0	0	0	0	1
ANIMAL ID	1	2	3	4	5	6	7	8	9	0
* TOTALS										
Trachea	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM										
NONE										
URINARY SYSTEM										
NONE										

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 100 mg/m3	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	1
ANIMAL ID	1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

! .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 100 mg/m³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1	2	2	2	1	1	2	2	10 1.5
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	10 4.0
Squamous Epithelium, Hyperplasia	1	1	1	2	1	2	1	1	1	2	10 1.3
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1	1	1	2	1	1	2	2	10 1.3
Metaplasia, Osseous						1					1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Goblet Cell, Hyperplasia	1	2	2	1	2	2	2	1	2	2	10 1.7
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	3	3	3	10 3.0
Olfactory Epithelium, Inflammation, Suppurative	1	1	2	1	2	1	1	1	1	2	10 1.3
Respiratory Epithelium, Accumulation, Hyaline Droplet	3	2	2	2	3	3	2	3	2	2	10 2.4
Respiratory Epithelium, Inflammation, Suppurative	1	1	2	1	2	1	1	1	1	2	10 1.3
Trachea	+	+	+	+	+	+	+	+	+	+	10

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+ .. Tissue examined microscopically

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l .. Insufficient tissue

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 100 mg/m3	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	1
ANIMAL ID	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 200 mg/m³	0	0	0	0	0	0	0	0	0	*
	0	0	0	0	0	0	0	0	0	1
	8	8	8	8	8	8	8	8	8	2.0
	1	2	3	4	5	6	7	8	9	0

*** TOTALS****ALIMENTARY SYSTEM**

Liver	+	1
Hepatodiaphragmatic Nodule	X	1
Mesentery	+	1
Fat, Necrosis	2	1 2.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 20515 - 01

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Route: RESPIRATORY EXPOSURE WHOLE BODY

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	8	8	8	8	8	8	8	8	8	8
200 mg/m ³	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	2	2	2	3	2	3	2	2	1	10 2.0
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	10 4.0
Squamous Epithelium, Hyperplasia	1	2	1	2	2	2	1	2	2	1	10 1.6
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	2	2	1	1	2	1	1	1	1	10 1.3
Metaplasia, Osseous						1					1 1.0
Alveolus, Infiltration Cellular, Histiocyte	1			1	1	1	1	1	1	1	7 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Goblet Cell, Hyperplasia	1	2	2	1	2	2	2	2	2	2	10 1.8
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	3	3	3	10 3.0
Olfactory Epithelium, Inflammation,	2	1	1	2	2	2	1	2	2	1	10 1.6

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 200 mg/m³	0	0	0	0	0	0	0	0	0	* TOTALS
	0	0	0	0	0	0	0	0	0	
	8	8	8	8	8	8	8	8	8	
	0	0	0	0	0	0	0	0	1	
Suppurative										
Respiratory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	2	3	3	2	3
Respiratory Epithelium, Inflammation, Suppurative	2	1	1	2	2	2	1	2	2	1
Trachea	+	+	+	+	+	+	+	+	+	10

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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1-4 .. Lesion qualified as:

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TDMS No. 20515 - 01

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First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 400 mg/m ³	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

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+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 20515 - 01

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CAS Number: CIMSTAR3800

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
MALE	1	1	1	1	1	1	1	1	1	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
400 mg/m ³	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1		1		1		1		1		6 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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1-4 .. Lesion qualified as:

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TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

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Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	DAY ON TEST	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0
MALE		1	1	1	1	1	1	1	1	1
400 mg/m³		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
Epididymis		+	+	+	+	+	+	+	+	+
Preputial Gland		+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active		1			1					
Prostate		+	+	+	+	+	+	+	+	+
Seminal Vesicle		+	+	+	+	+	+	+	+	+
Testes		+	+	+	+	+	+	+	+	+
* TOTALS										

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Bronchial	+	+	+	+	M	+	+	M	+	+	8
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

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TDMS No. 20515 - 01

Test Type: 90-DAY

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Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 400 mg/m³	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
										* TOTALS

INTEGUMENTARY SYSTEM

Mammary Gland	M	+	M	+	+	M	M	M	+	+	5
Skin	+	+	+	+	+	+	+	+	+	+	10

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	3	3	2	3	3	1	3	3	3	10 2.5
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	10 4.0
Squamous Epithelium, Hyperplasia	1	2	2	1	2	2	1	2	2	2	10 1.7
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1	2	1	2	1	1	2	1	10 1.3
Alveolus, Infiltration Cellular, Histiocyte	1	1	1	1	1	1	1	1	1	1	10 1.0

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TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

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First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 400 mg/m ³	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

Nose	+	+	+	+	+	+	+	+	+	+	10
Foreign Body		X									1
Goblet Cell, Hyperplasia	2	2	2	2	2	2	2	2	1	2	10 1.9
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	3	3	3	10 3.0
Olfactory Epithelium, Inflammation, Suppurative	2	2	1	2	2	1	1	2	2	2	10 1.7
Olfactory Epithelium, Necrosis		1									1 1.0
Respiratory Epithelium, Accumulation, Hyaline Droplet	3	3	2	3	3	3	2	3	3	3	10 2.8
Respiratory Epithelium, Hyperplasia		1									1 1.0
Respiratory Epithelium, Inflammation, Suppurative	2	2	1	2	2	1	1	2	2	2	10 1.7
Trachea	+	+	+	+	+	+	+	+	+	+	10
Metaplasia, Squamous		1									1 1.0

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	----

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS MALE 400 mg/m³	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									
	Nephropathy	1	1	1	1	1	1	1	1	1.0
	Urinary Bladder	+	+	+	+	+	+	+	+	10

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 0 mg/m3	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver Inflammation, Granulomatous	+	+	+	+	+	+	+	+	+	+	10
	1		1		1		1		1		3 1.0
Oral Mucosa Inflammation, Acute			+								1
			2								1 2.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10

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TDMS No. 20515 - 01

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Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 0 mg/m ³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+

CARDIOVASCULAR SYSTEM

Heart Cardiomyopathy	+	+	+	+	+	+	+	+	+	+
						1				

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	M	+	+	+	+	+	+
Thyroid Gland	+	+	+	+	+	+	+	+	+	+

GENERAL BODY SYSTEM

NONE

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TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
0 mg/m3	1	2	3	4	5	6	7	8	9	0
* TOTALS										

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary Cyst	+	+	+	+	+	+	+	+	+	+	10
				2				2			2 2.0
Uterus	+	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Bronchial	+	+	+	M	+	+	+	+	M	+	8
Lymph Node, Mandibular	+	+	I	+	+	+	+	+	+	+	9
Lymph Node, Mediastinal	+	+	+	+	+	M	+	M	+	+	8
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	1	1	1	1	1	1	1	1	1	1
0 mg/m3	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	2	2	2	2	1	2	2	1	1	1	10 1.6
Nose	+	+	+	+	+	+	+	+	+	+	10

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Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 0 mg/m3	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									
Trachea	+	+	+	+	+	+	+	+	+	10
Eye	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	10
Kidney	+	+	+	+	+	+	+	+	+	10
Urinary Bladder	+	+	+	+	+	+	+	+	+	10

URINARY SYSTEM

Kidney

Urinary Bladder

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TDMS No. 20515 - 01

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Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 25 mg/m³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*** TOTALS****ALIMENTARY SYSTEM**

Liver Hepatodiaphragmatic Nodule	+	+	+	+						4
	X	X	X	X						4

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	3	3	3	3	3	3	3	3	3	3
25 mg/m3	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx

Inflammation, Chronic Active

Metaplasia, Squamous

Squamous Epithelium, Hyperplasia

+	+	+	+	+	+	+	+	+	+
1	1	1	1	1	1	1	1	1	1
2	3	3	3	3	3	3	3	3	3
1	1	2	1	1	1	1	1	1	1

10
10 1.0
10 2.9
9 1.1

Lung

Inflammation, Chronic Active

Metaplasia, Osseous

+	+	+	+	+	+	+	+	+	+
1	1	1	1	1	1	1	2	1	1
							1		

10
10 1.1
1 1.0

Nose

Goblet Cell, Hyperplasia

Olfactory Epithelium, Accumulation,
Hyaline DropletOlfactory Epithelium, Inflammation,
SuppurativeRespiratory Epithelium, Accumulation,
Hyaline DropletRespiratory Epithelium, Inflammation,
Suppurative

+	+	+	+	+	+	+	+	+	+
2	2		1	2	2	1	1	1	
3	3	1	3	3	3	3	3	3	3
1	1	1	1		1	1	1	1	1
3	3	3	3	1	1	3	3	3	3
1	1	1	1		1	1	1	1	1

10
8 1.5
10 2.8
9 1.0
10 2.6
9 1.0

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+ .. Tissue examined microscopically

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l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4

FISCHER 344-TACONIC RATS

FEMALE

25 mg/m³

ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1

* TOTALS

Trachea

+ + + + + + + + + +

10

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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+ .. Tissue examined microscopically

x .. Lesion present

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Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 50 mg/m3	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5
	0	0	0	0	0	0	0	0	0	1
ANIMAL ID	1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 50 mg/m3	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*** TOTALS****NERVOUS SYSTEM**

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1	1	1	2	1	1	1	1	10 1.1
Metaplasia, Squamous	3	3	4	3	4	3	4	3	4	3	10 3.4
Squamous Epithelium, Hyperplasia	1	1	1	1	1	1	1	1	1	1	7 1.0
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	2	2	2	1	1	2	2	1	1	10 1.5
Nose	+	+	+	+	+	+	+	+	+	+	10
Goblet Cell, Hyperplasia	2	2	2	2	1	1	2	1	1	1	10 1.5
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	3	3	3	10 3.0
Olfactory Epithelium, Inflammation, Suppurative	1	1	1	1	1	1	1	2	1	1	10 1.1
Respiratory Epithelium, Accumulation, Hyaline Droplet	3	3	3	2	3	3	3	3	2	3	10 2.8
Respiratory Epithelium, Inflammation, Suppurative	1	1	1	1	1	1	1	2	1	1	10 1.1
Trachea	+	+	+	+	+	+	+	+	+	+	10

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CAS Number: CIMSTAR3800

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Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE ANIMAL ID 50 mg/m ³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5
	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	0	

* TOTALS

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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CAS Number: CIMSTAR3800

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First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 100 mg/m³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*** TOTALS****ALIMENTARY SYSTEM**

Liver	+	+	+	3
Hepatodiaphragmatic Nodule	X	X	X	3
Mesentery			+	1
Fat, Hemorrhage			2	1 2.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	7	7	7	7	7	7	7	7	7	7
100 mg/m3	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	2	2	1	2	1	2	2	1	2	10 1.6
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	10 4.0
Squamous Epithelium, Hyperplasia	2	2	2	1	1	1	1	2	1	1	10 1.4
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1	1	1	2	1	2	1	1	9 1.2
Arteriole, Inflammation, Chronic Active						1					1 1.0
Bronchiole, Hyperplasia						2					1 2.0
Perivascular, Inflammation, Chronic Active						1					1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Goblet Cell, Hyperplasia	2	1	2	1	2	2	1	2	1		9 1.6
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	2	3	3	3	3	3	3	3	3	10 2.9

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+ .. Tissue examined microscopically

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 100 mg/m³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0	1
* TOTALS										
Olfactory Epithelium, Inflammation, Suppurative	1	1	1	1	1	2	1	1	2	2
Respiratory Epithelium, Accumulation, Hyaline Droplet	3	2	3	3	3	2	3	2	2	3
Respiratory Epithelium, Inflammation, Suppurative	1	1	1	1	1	2	1	1	2	2
Trachea	+	+	+	+	+	+	+	+	+	+
										10
SPECIAL SENSES SYSTEM										
NONE										
URINARY SYSTEM										
NONE										

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	9	9	9	9	9	9	9	9	9	9
200 mg/m3	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

Liver										1
Hepatodiaphragmatic Nodule										1

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Ovary	+									2
Cyst	2									2 2.0

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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x .. Lesion present

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M .. Missing tissue

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Species/Strain: RATS/F344/N Tac

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CAS Number: CIMSTAR3800

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First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	9	9	9	9	9	9	9	9	9	9
200 mg/m3	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	2	2	1	2	1	3	1	1	2	2	10 1.7
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	10 4.0
Squamous Epithelium, Hyperplasia	2	1	2	1	1	2	1	1	1	1	9 1.3
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	1	1	1	2	1	2	1	2	10 1.3
Alveolus, Infiltration Cellular, Histiocyte	1	1	1	1	1	1	1	1	1	1	10 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Goblet Cell, Hyperplasia	2	2	1	1	2	1	2	2	2	2	10 1.7
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	3	3	3	10 3.0
Olfactory Epithelium, Inflammation, Suppurative	2	1	1	2	1	2	2	1	2	2	10 1.6
Respiratory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	2	3	2	10 2.8

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 200 mg/m ³	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									
Respiratory Epithelium, Inflammation, Suppurative	2	1	1	2	1	2	2	1	2	2
Trachea	+	+	+	+	+	+	+	+	+	+
	10 1.6									
	10									
SPECIAL SENSES SYSTEM										
NONE										
URINARY SYSTEM										
NONE										

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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TDMS No. 20515 - 01

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Species/Strain: RATS/F344/N Tac

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CAS Number: CIMSTAR3800

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 400 mg/m3	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule											1
Inflammation, Granulomatous	1	2	1	1		1	1	1			6 1.2
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	1	1	1	1	1	1	1	1	1	1
ANIMAL ID	1	1	1	1	1	1	1	1	1	1
400 mg/m³	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+
										10

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy					1		1			

10
2 1.0**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+
Thyroid Gland	+	+	+	+	+	+	+	+	+	+

10
2 1.0**GENERAL BODY SYSTEM**

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 400 mg/m3	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Bronchial	+	M	+	+	+	M	+	+	+	+	8
Lymph Node, Mandibular	M	+	+	+	+	+	+	+	+	+	9
Lymph Node, Mediastinal	M	+	+	+	+	+	+	+	+	+	9
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

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TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

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Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

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Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

	0	0	0	0	0	0	0	0	0	0
DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	1	1	1	1	1	1	1	1	1	1
ANIMAL ID	1	1	1	1	1	1	1	1	1	1
400 mg/m3	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

* TOTALS

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	3	3	3	3	2	2	1	1	2	2	10 2.2
Metaplasia, Squamous	4	4	4	4	4	4	4	4	4	4	10 4.0
Squamous Epithelium, Hyperplasia	2	2	1	2	1	2	2	2	2	1	10 1.7
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	1	2	1	1	2	2	1	1	1	10 1.3
Alveolus, Infiltration Cellular, Histiocyte	1	1	1	1	1	1	1	1	1	1	10 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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1) Minimal 3) Moderate

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TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

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First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
									
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	1	1	1	1	1	1	1	1	1	1
ANIMAL ID	1	1	1	1	1	1	1	1	1	1
400 mg/m³	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
										* TOTALS
Nose	+	+	+	+	+	+	+	+	+	10
Goblet Cell, Hyperplasia	2	1	2	2	2	1	2	2	2	10 1.8
Olfactory Epithelium, Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	3	3	10 3.0
Olfactory Epithelium, Inflammation, Suppurative	1	2	1	2	1	2	1	1	2	10 1.4
Respiratory Epithelium, Accumulation, Hyaline Droplet	3	3	2	3	3	2	3	2	3	10 2.7
Respiratory Epithelium, Inflammation, Suppurative	1	2	1	2	1	2	1	1	2	10 1.4
Respiratory Epithelium, Metaplasia, Squamous							1			1 1.0
Trachea	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM									
Eye	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM									
Kidney	+	+	+	+	+	+	+	+	+	10
Pelvis, Inflammation, Acute						1				1 1.0
Transitional Epithelium, Hyperplasia						2				1 2.0

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20515 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Metal working fluids (CIMSTAR 3800)

CAS Number: CIMSTAR3800

Date Report Requested: 10/21/2008

Time Report Requested: 07:18:15

First Dose M/F: 06/12/06 / 06/12/06

Lab: BNW

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
FISCHER 344-TACONIC RATS FEMALE 400 mg/m ³	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
ANIMAL ID	1	2	3	4	5	6	7	8	9	0
	*	*	*	*	*	*	*	*	*	*
Urinary Bladder	+	+	+	+	+	+	+	+	+	10

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked